

Use the diagram at the right. Tell why each statement is true.

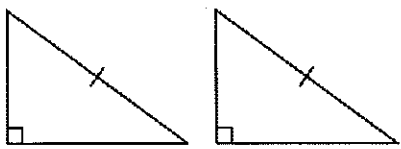
15. $m\angle ADB = 90$ Given (from drawing)

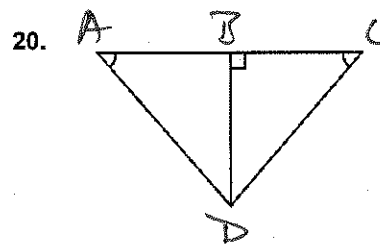
16. $\overline{BD} \cong \overline{BD}$ Reflexive

17. $\triangle ADB \cong \triangle CDB$ AAS (angle, angle, side)

18. In $\triangle ABC$, which side is included between $\angle B$ and $\angle C$? \overline{BC}

State the postulate or theorem you can use to prove each pair of triangles congruent.
If the triangles cannot be proven congruent, write not enough information.

19. 
Not enough info



- ① add letters to help
- ② $\angle A \cong \angle C$
Given from drawing
- ③ $\angle ABD \cong \angle CBD$
right angles are congruent
- ④ $\overline{BD} \cong \overline{BD}$
Reflexive
- ⑤ $\triangle ABD \cong \triangle CBD$
AAS

Proof:

21. Given: $\overline{LM} \cong \overline{NO}$; $\angle LMO \cong \angle NOM$

Prove: $\triangle LMO \cong \triangle NOM$



Statement	Reason
$\overline{LM} \cong \overline{NO}$	Given
$\angle LMO \cong \angle NOM$	Given
$\overline{OM} \cong \overline{OM}$	Reflexive
$\triangle LMO \cong \triangle NOM$	SAS